AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. **(Currently Amended)** A method for analyzing a network, comprising:

capturing a data trace representative of a network operation;

determining the network topology from loop primitives in the data trace;

dividing a sample duration window of the trace into a first predetermined number of intervals;

calculating an initial state for each device in the network topology for at least one of the first predetermined number of intervals based upon events that occur outside the sample duration window;

displaying average values of network analysis information based upon the initial states and the network topology to the user; and

adjusting the sample duration window to display individual values of the network analysis information.

2. **(Previously Presented)** The method of claim 1, further comprising allowing the user to adjust the sample duration window.

3. **(Previously Presented)** The method of claim 2, wherein adjusting the sample duration window comprises:

dividing the duration of the sample duration window into a second predetermined number of intervals;

determining a calculated initial state that immediately precedes a first interval in the second predetermined number of intervals;

calculating a valid starting state for each device on the network for the first interval in the second predetermined number of intervals based upon the determined preceding initial state; and

calculating an initial state for each device on the network for at least one of the second predetermined number of intervals based upon the valid starting states and the data trace.

4. **(Previously Presented)** The method of claim 1, wherein adjusting the sample duration window comprises adjusting the granularity of a displayed sample analysis.

5. **(Original)** The method of claim 1, further comprising storing a snapshot of the network analysis information.

6. **(Previously Presented)** The method of claim 3, further comprising storing a snapshot of the calculated initial states.

7. **(Original)** The method of claim 3, further comprising generating errors and metrics representative of the sample duration window.

8. **(Previously Presented)** The method of claim 3, further comprising allowing a user to select the sample duration window and the second predetermined number of intervals.

9. **(Previously Presented)** The method of claim 8, further comprising allowing the user to select a plurality of parameters to be displayed as part of the network analysis information.

10-21. **(Canceled)**

22. **(Currently Amended)** The method of claim 1, wherein the network topology is an arbitrated loop topology and wherein the network analysis information includes tenancy metrics describing a rate at which a device in the network is capable of bursting data.

23. **(Currently Amended)** A method for analyzing a network, comprising:

capturing a data trace representative of a network operation;

determining the network topology from loop primitives in the data trace;

dividing a sample duration window of the trace into a first predetermined number of intervals;

calculating an initial state for each device in the network topology for at least one of the first predetermined number of intervals based upon events that occur outside the sample duration window;

displaying exchange completion time (ECT) metrics based upon the initial states and the network topology to the user; and

adjusting the sample duration window to zoom in to the displayed ECT metrics at a point immediately prior to a spike in the ECT metrics.

24. **(New)** The method of claim 1, wherein at least one of the loop primitives corresponds to a device in the network claiming, utilizing, or releasing a network resource.

25. **(New)** The method of claim 1, wherein determining the network topology includes determining where switches are positioned in the network.

26. **(New)** A method for analyzing a network, comprising:

capturing a data trace representative of a network operation;

determining a network topology from the data trace;

dividing a sample duration window of the trace into a first predetermined number of intervals;

calculating an initial state for each device in the network topology for at least one of the first predetermined number of intervals based upon events that occur outside the sample duration window; and

displaying network analysis information based upon the initial states and the network topology to the user,

wherein determining the network topology from the data trace includes determining whether the network topology includes loops and/or switches.

27. **(New)** The method of claim 26, wherein determining the network topology from the data trace includes determining whether the network topology includes loops before determining whether the network topology includes switches.